Infrastructure Assessment (IA) Planning & Response Team

Kelley Aasen, P.E.
ESF #3 Team Leader
Chief, Emergency Management Branch
South Pacific Division

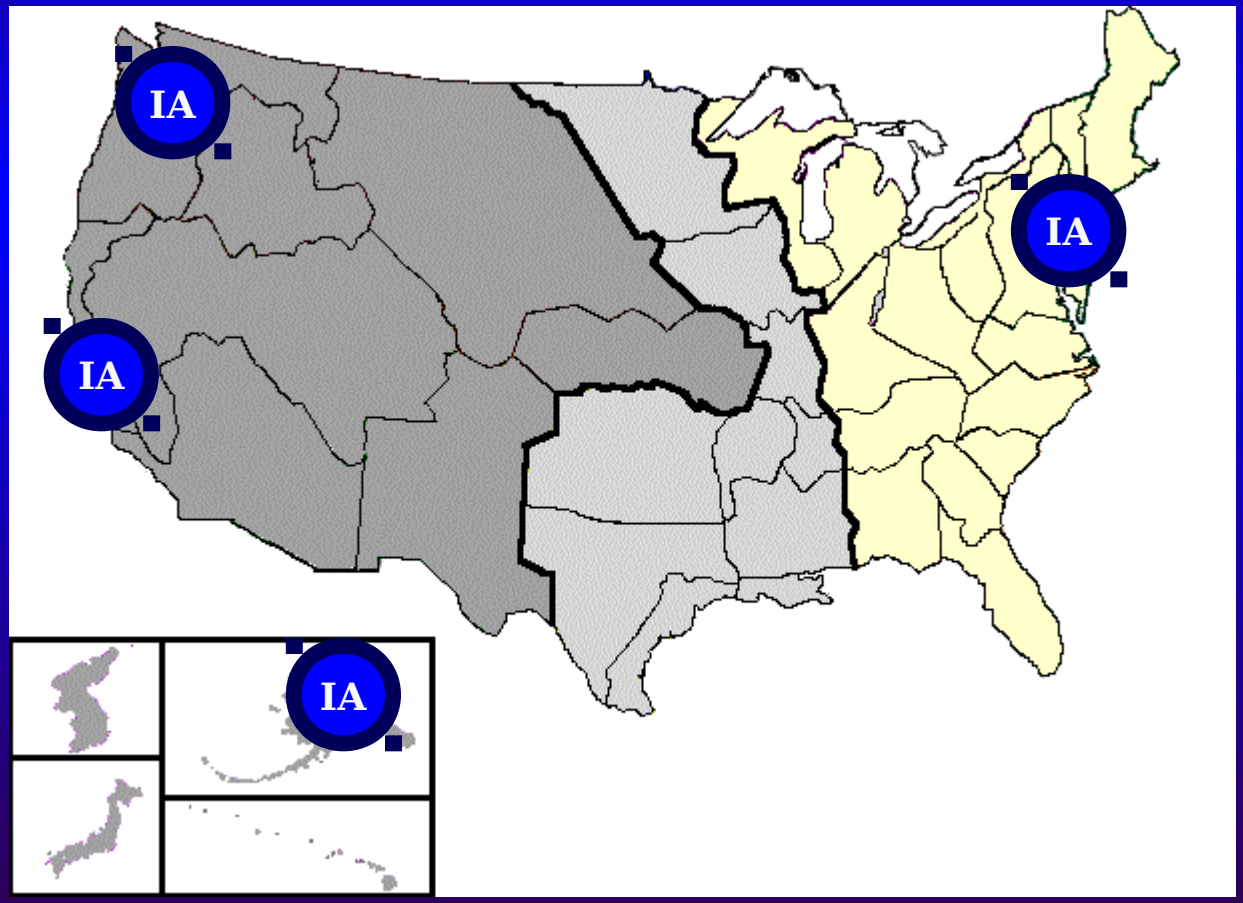
Purpose

- Support public works inspections during disaster response and recovery efforts
- Coordinate and oversee a core of inspectors
- Functions
  - Structural safety evaluations of residential and limited commercial buildings
  - Manage array of civil works inspections
  - Coordinate with State and Local officials to design inspection process to meet specified needs

Mission Overview

- Augment local efforts to conduct inspections of buildings following major disaster
- Provide just-in-time training to inspectors
- Evaluate damaged buildings verifying if structurally safe
- Provide management cell for wide array of civil works inspections including heavy structural assessments (e.g. hospitals to ensure mass care); mechanical; electrical; geotechnical; environmental engineering; water/wastewater infrastructure

Locations



Districts
•
Sacramento
• Seattle
• Buffalo
• Alaska

Configuration

Management Element

- ESF #3 Action Officer
- Mission Manager
- Mission Specialist
- Mission Data Manager
- Training Officer
- Supervisory Inspection Team Leader

Support Element

- Safety Officer
- ITL, ATC-20 Inspectors, US&R StS Structural, Electrical, Mechanical Engineers
- Dam Safety Inspectors

Deployment Locations Example

Note: Training Officer to EFO after training is completed

Unique Team Features

- "Just in Time" Training Officer
  - ATC-20 (Post Earthquake)
  - ATC-45 (Post Flood)
  - Other Inspections (Structural, Demolition, Etc.)
- Mission Data Manager

New Mission Set (EPA Mission Assignments)

- Need briefing (3 slides) from Jack Hurdle
- Three new pre-scripted mission assignments

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Summary

- A good team to call on to take the burden off the TLs and ATLs for any type of mission that requires a management cell.
  - Guam Typhoons (Building Inspections)
  - Katrina JFO (EPA Wastewater)
  - New York Trade Center (US&R)
  - Hawaii Earthquakes (Dam Inspections)

Case Study

Structural Safety Assessment Inspections
(City of New Orleans)

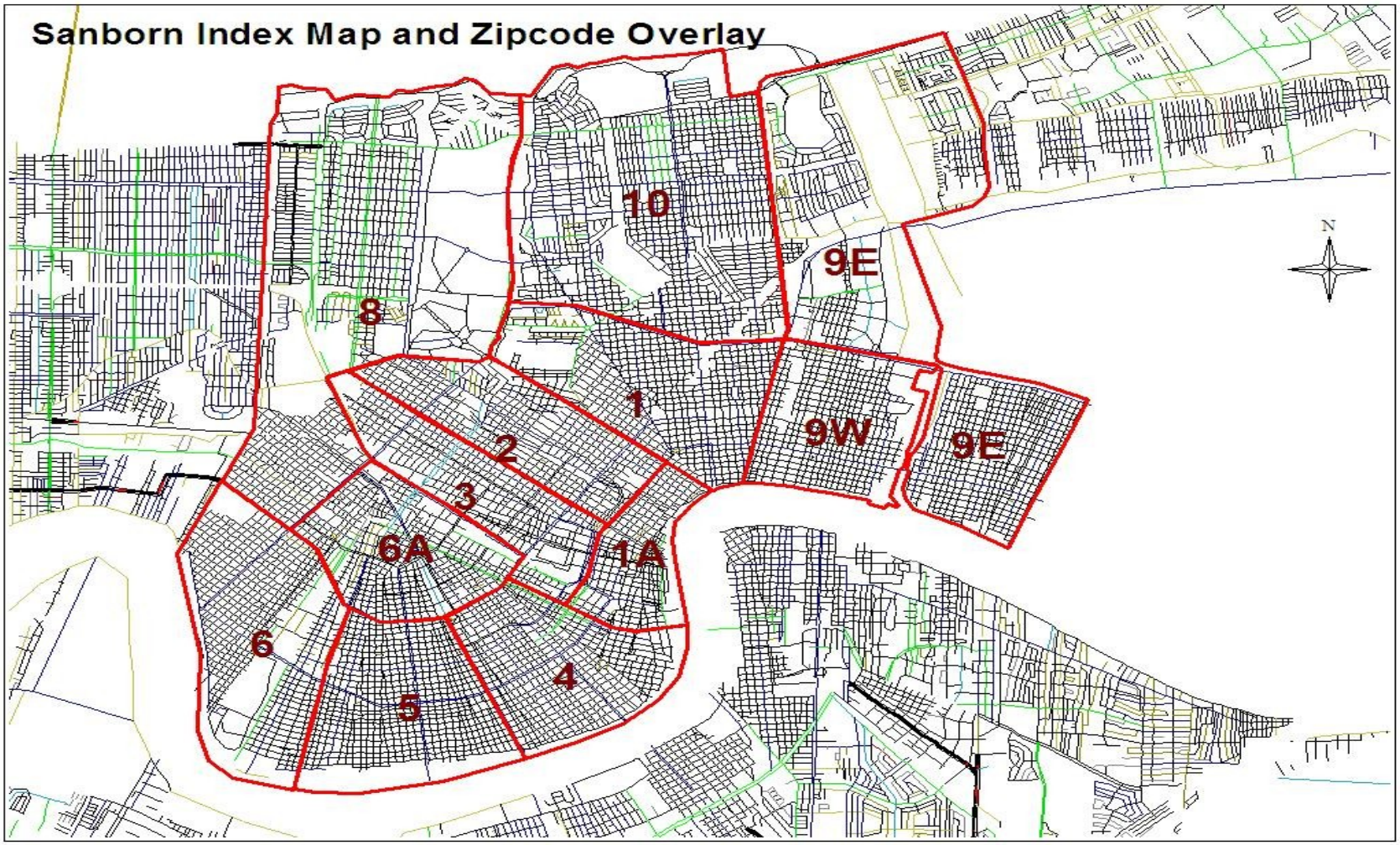
Mission Definition

- Provide quality structural safety assessment (SSA) inspections for buildings impacted by Hurricane Katrina within City of New Orleans
- Purpose of inspection is to determine whether damaged buildings are safe for use or if entry should be restricted or prohibited

Inspection Process

- Direction from Department of Safety and Permits
- USACE Program Overview
  - Train Inspectors
  - Coordinate Inspections
  - Report Data
  - Accela Software Coordination/Training
- Shaw Provides Qualified Inspectors
- Structural Safety and FEMA Mitigation Inspections
- Mapping Results
- Substantial Damage Determination

City's Direction



Sanborn Inspection Map

SSA Command Post

Inspector Guidelines

- Engineers
- Architects
- Certified Building Officials or Inspectors
- General Knowledge of Construction
- Professional Experience & Education

Types of Evaluations

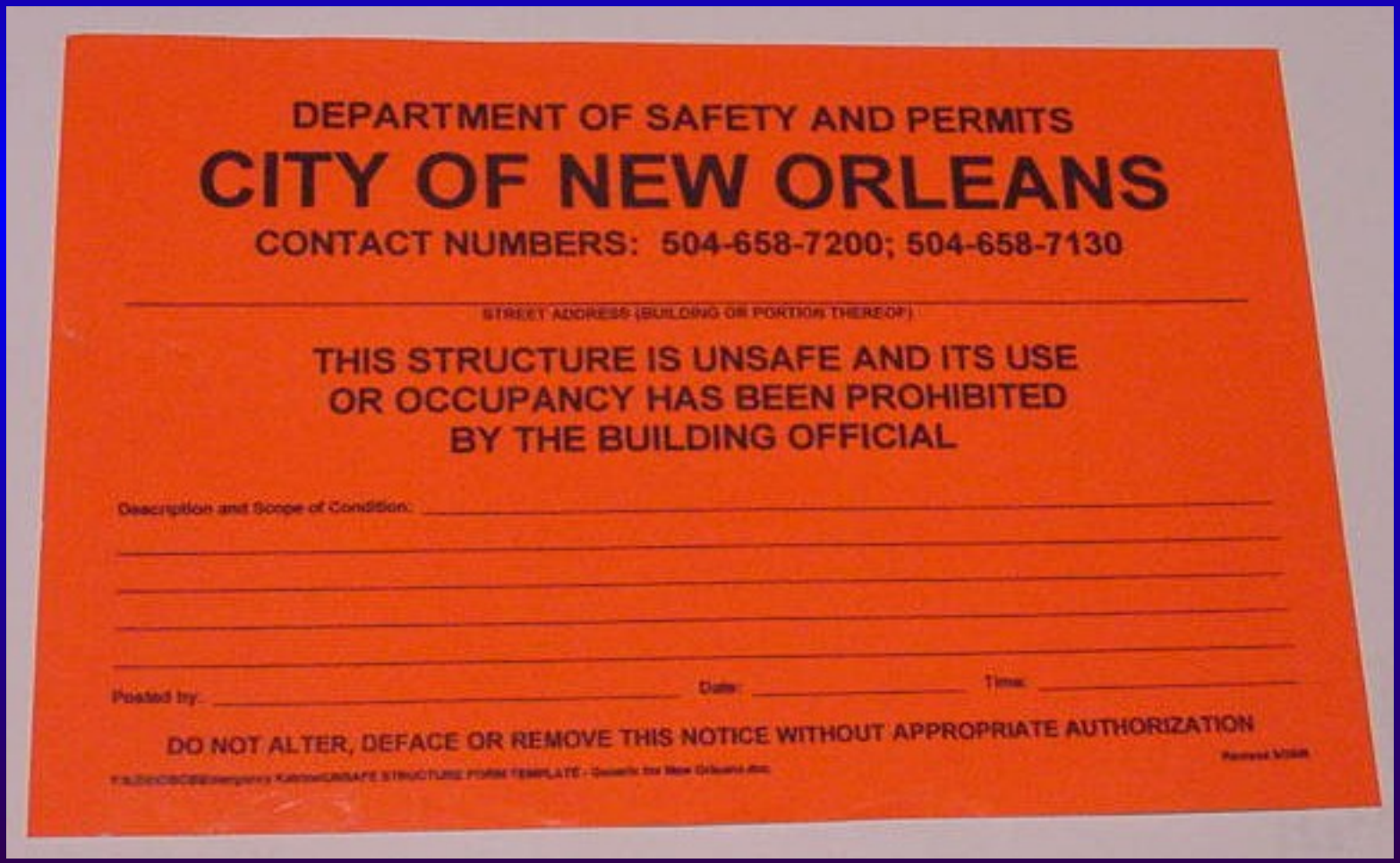
- Rapid evaluations (exterior only)
- Assessment of interior damages (if safe)
- Conducted on residential buildings not public structures, commercial and/or industrial businesses

“Tough Book” Laptop

Structure Postings

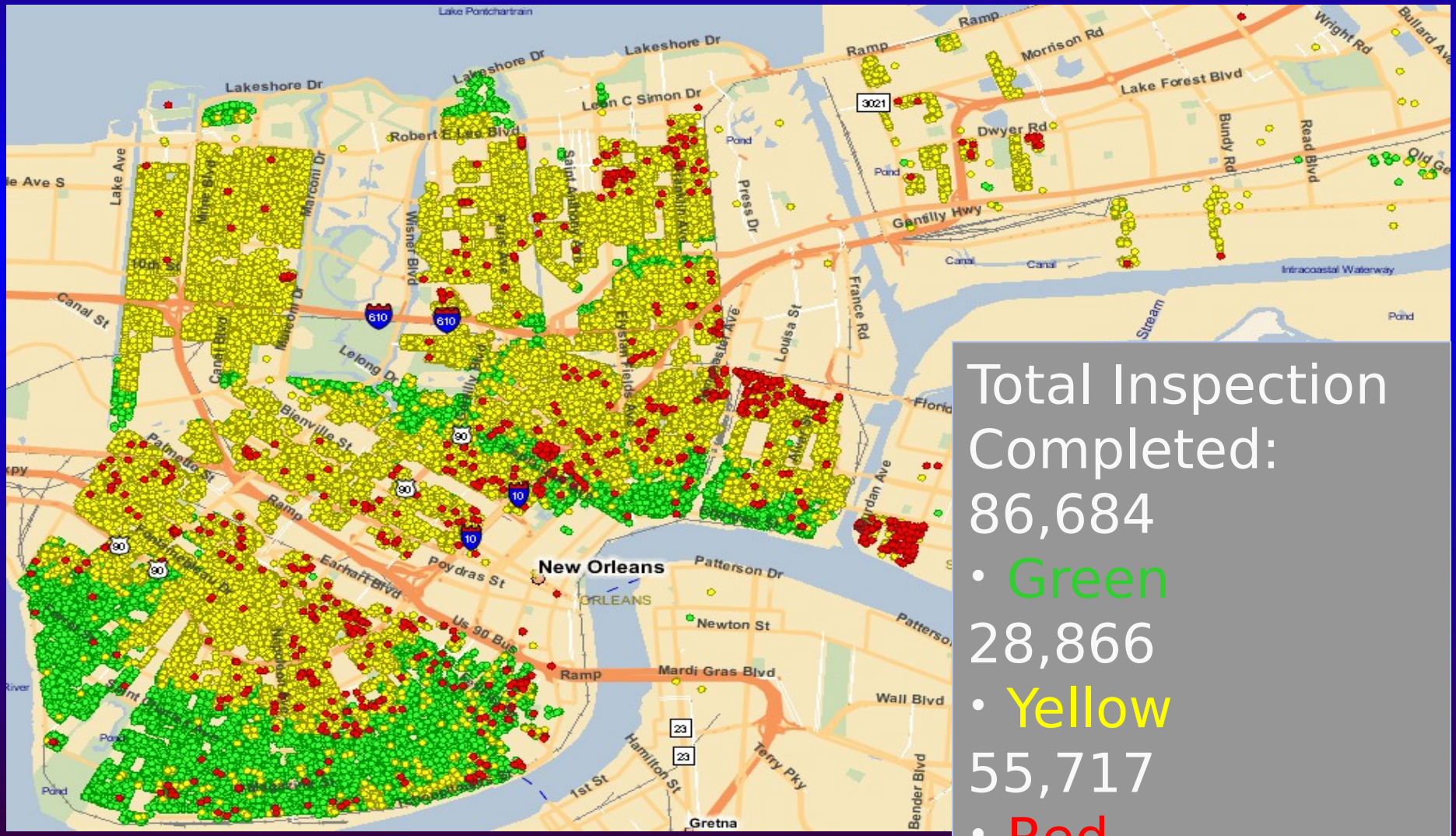
- Green - inspected habitable
  - Safe to enter/occupy
  - Minor or no damage
- Yellow - restricted use
  - Damage that represents threat to occupants
  - Entry & occupancy restricted
- Red - unsafe
  - Not habitable, unsafe to enter/occupy
  - Significant threat to life & safety

City of New Orleans Placecard


DEPARTMENT OF SAFETY AND PERMITS
CITY OF NEW ORLEANS
CONTACT NUMBERS: 504-658-7200; 504-658-7130
STREET ADDRESS (BUILDING OR PORTION THEREOF)
THIS STRUCTURE IS UNSAFE AND ITS USE
OR OCCUPANCY HAS BEEN PROHIBITED
BY THE BUILDING OFFICIAL
Description and Scope of Condition:
Posted by:
Date:
Time:
DO NOT ALTER, DEFACE OR REMOVE THIS NOTICE WITHOUT APPROPRIATE AUTHORIZATION

Red Place Card

Results of SSA Inspections



Total Inspection Completed:
86,684

- Green
28,866
- Yellow
55,717
- Red

Conclusion

- SSA mission extremely successful
- First national deployment of the SSA PRT
- Adapted to changing needs of situation faced, modifying roles and responsibilities suiting the evolving mission
- Coordinated over 140,000 inspections for City of New Orleans and surrounding Parishes

Questions?